

## CLAIMS

1. A method for transducing hematopoietic progenitor cells, comprising transducing the hematopoietic progenitor cells with exogenous genetic material in the presence of human  
5 mesenchymal stem cells.
2. The method of claim 1, wherein the mesenchymal stem cells are autologous to the hematopoietic progenitor cells.
- 10 3. The method of claim 1 wherein the mesenchymal stem cells are allogeneic to the hematopoietic progenitor cells.
4. The method of claim 1 further comprising separating the transduced human progenitor cells from the mesenchymal stem cells.

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